

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



Applicant: Stanley S. Toncich) Dkt. No.: UTL 00004
Serial No.: 09/927,136) Art Unit: 2821
Filed: August 10, 2001) Examiner: Tho Gia Phan
Title: TUNABLE MATCHING CIRCUIT)

INFORMATION DISCLOSURE STATEMENT TRANSMITTAL LETTER

Commissioner for Patents
Washington, D.C. 20231

09/25/2002 DTESSEN1 00000081 09927136
01 FC:126

180.00 OP

Dear Sir:

Pursuant to 37 C.F.R. 1.97 and 1.98 and the duty of disclosure set forth in 37 C.F.R. 1.56, the Examiner in charge of the above-identified application is requested to consider and make of record the references listed on the PTO/SB/08A submitted herewith. A copy of each of the listed references is also enclosed. A fee of \$180.00 is enclosed pursuant to 37 C.F.R. §1.17(p).

Although the information submitted herewith may be "material" to the Examiner's consideration of the subject application, this submission is not intended to constitute an admission that such information is "prior art" as to the claimed invention.

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.

This Information Disclosure Statement is being submitted by express mail pursuant to 37 C.F.R. § 1.10, and therefore has a filing date of the date of deposit. This submission includes:

1. Information Disclosure Statement by Applicant (6 pages)
2. One Copy of Each Reference
3. Fee Transmittal (In Duplicate)
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5. Postcard

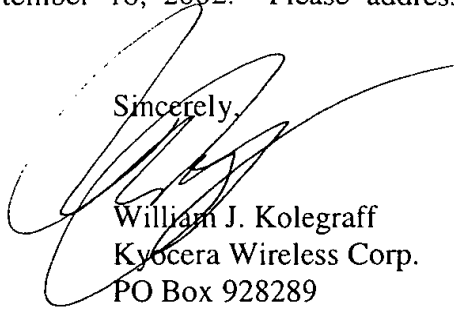
I certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231.

William J. Kolegraff

Date of Deposit: September 18, 2002

Respectfully submitted September 18, 2002. Please address any questions or comments to the undersigned.

Sincerely,

A large, stylized handwritten signature in black ink, appearing to read 'W. Kolegraff', is written over the word 'Sincerely,'.

William J. Kolegraff
Kyocera Wireless Corp.
PO Box 928289
San Diego, CA 92192-8289
Phone: 858/882-2000
Reg. No. 41,125



PTO/SB/17 (11-00)
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FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT (\$) 180.00

Complete if Known

| | |
|----------------------|--------------------|
| Application Number | 09/927,136 |
| Filing Date | August 10, 2001 |
| First Named Inventor | Stanley S. Toncich |
| Examiner Name | Tho Gia Phan |
| Group Art Unit | 2821 |
| Attorney Docket No. | UTL 00004 |

METHOD OF PAYMENT

1. ☐ The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

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- ☐ Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17
☐ Applicant claims small entity status. See 37 CFR 1.27

2. ☒ Payment Enclosed:

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FEE CALCULATION

1. BASIC FILING FEE

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|----------------------------|----------------------------|------------------------|----------------------|
| 101 710 | 201 355 | Utility filing fee | <input type="text"/> |
| 106 320 | 206 160 | Design filing fee | <input type="text"/> |
| 107 490 | 207 245 | Plant filing fee | <input type="text"/> |
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| 114 150 | 214 75 | Provisional filing fee | <input type="text"/> |

SUBTOTAL (1) (\$)

2. EXTRA CLAIM FEES

Total Claims -20** = X =
Independent Claims -3** = X =
Multiple Dependent =

| Large Entity Fee Code (\$) | Small Entity Fee Code (\$) | Fee Description |
|----------------------------|----------------------------|--|
| 103 18 | 203 9 | Claims in excess of 20 |
| 102 80 | 202 40 | Independent claims in excess of 3 |
| 104 270 | 204 135 | Multiple dependent claim, if not paid |
| 109 80 | 209 40 | ** Reissue independent claims over original patent |
| 110 18 | 210 9 | ** Reissue claims in excess of 20 and over original patent |

SUBTOTAL (2) (\$)

**for number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

| Large Entity Fee Code (\$) | Small Entity Fee Code (\$) | Fee Description | Fee Paid |
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| 105 130 | 205 65 | Surcharge - late filing fee or oath | <input type="text"/> |
| 127 50 | 227 25 | Surcharge - late provisional filing fee or cover sheet | <input type="text"/> |
| 139 130 | 139 130 | Non-English specification | <input type="text"/> |
| 147 2,520 | 147 2,520 | For filing a request for <i>ex parte</i> reexamination | <input type="text"/> |
| 112 920* | 112 920* | Requesting publication of SIR prior to Examiner action | <input type="text"/> |
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| 115 110 | 215 55 | Extension for reply within first month | <input type="text"/> |
| 116 390 | 216 195 | Extension for reply within second month | <input type="text"/> |
| 117 890 | 217 445 | Extension for reply within third month | <input type="text"/> |
| 118 1,390 | 218 695 | Extension for reply within fourth month | <input type="text"/> |
| 128 1,890 | 228 945 | Extension for reply within fifth month | <input type="text"/> |
| 119 310 | 219 155 | Notice of Appeal | <input type="text"/> |
| 120 310 | 220 155 | Filing a brief in support of an appeal | <input type="text"/> |
| 121 270 | 221 135 | Request for oral hearing | <input type="text"/> |
| 138 1,510 | 138 1,510 | Petition to institute a public use proceeding | <input type="text"/> |
| 140 110 | 240 55 | Petition to revive - unavoidable | <input type="text"/> |
| 141 1,240 | 241 620 | Petition to revive - unintentional | <input type="text"/> |
| 142 1,240 | 242 620 | Utility issue fee (or reissue) | <input type="text"/> |
| 143 440 | 243 220 | Design issue fee | <input type="text"/> |
| 144 600 | 244 300 | Plant issue fee | <input type="text"/> |
| 122 130 | 122 130 | Petitions to the Commissioner | <input type="text"/> |
| 123 50 | 123 50 | Processing fee under 37 CFR 1.17(q) | <input type="text"/> |
| 126 180 | 126 180 | Submission of Information Disclosure Statement | <input type="text"/> |
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| 179 710 | 279 355 | Request for Continued Examination (RCE) | <input type="text"/> |
| 169 900 | 169 900 | Request for expedited examination of a design application | <input type="text"/> |
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| SUBTOTAL (3) (\$) 180.00 | | | <input type="text"/> |

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$) 180.00

SUBMITTED BY

Name (Print/Type) William J. Kolegraff
Signature [Signature]

Registration No. 41,125
(Attorney/Agent)

Complete (if applicable)

Telephone 858-882-2000
Date September 18, 2002

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PTO/SB/08A (10-01)
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| | | | Application Number | 09/927,136 |
| Sheet 1 of 6 | | | Filing Date | August 10, 2001 |
| | | | First Named Inventor | Stanley S. Toncich |
| | | | Art Unit | 2821 |
| | | | Examiner Name | Tho Gia Phan |
| | | | Attorney Docket Number | UTL 00004 |

| U.S. PATENT DOCUMENTS | | | | | |
|-----------------------|------------|---|--------------------------------|--|---|
| Examiner Initials* | Cite No. 1 | Document Number Number - Kind Code ² (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | 1 | US- 5,729,239 | 03-17-1998 | Rao, Jaganmohan B.L. | |
| | 2 | US- 6,049,726 | 04-11-2000 | Gruenwald, Werner, et al. | |
| | 3 | US- 6,160,524 | 12-12-2000 | Wilber, William | |
| | 4 | US- 6,198,441 B1 | 03-06-2001 | Okabe, Hiroshi | |
| | 5 | US- 6,028,561 | 02-22-2000 | Takei, Ken | |
| | 6 | US- 5,973,567 | 10-26-1999 | Heal, Mark D., et al. | |
| | 7 | US- 4,475,108 | 10-02-1984 | Moser, Kenneth R. | Abstract, Fig. 1 |
| | 8 | US- 3,678,305 | 07-18-1972 | George, Edward | |
| | 9 | US- 3,918,012 | 11-04-1975 | Peuzin, Jean Claude | |
| | 10 | US- 5,450,092 | 09-12-1995 | Das, Satyendranath | |
| | 11 | US- 6,333,719 B1 | 12-25-2001 | Varadan, Vijay K. | |
| | 12 | US- 5,212,463 | 05-18-1993 | Babbitt, Richard W., et al. | |
| | 13 | US- 4,733,328 | 03-22-1988 | Blazej, Daniel C. | |
| | 14 | US- 5,617,104 | 04-01-1997 | Das, Satyendranath | |
| | 15 | US- 5,307,033 | 04-26-1994 | Koscica, Thomas E., et al. | |
| | 16 | US- 5,427,988 | 06-27-1995 | Sengupta, Louise, et al. | |
| | 17 | US- 5,557,286 | 09-17-1996 | Varadan, Vijay K., et al. | |
| | 18 | US- 5,561,407 | 10-01-1996 | Koscica, Thomas E., et al. | |
| | 19 | US- 5,589,845 | 12-31-1996 | Yandrofski, Robert M. | |
| | 20 | US- 5,496,795 | 03-05-1996 | Das, Satyendranath | |

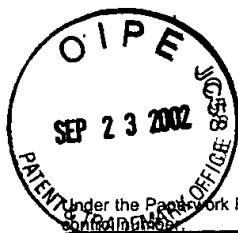
| FOREIGN PATENT DOCUMENTS | | | | | | |
|--------------------------|------------|--|--------------------------------|--|---|----------------|
| Examiner Initials* | Cite No. 1 | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁶ |
| | | Country Code ³ -Number ⁴ - Kind Code ⁵ (if known) | | | | |
| | 21 | WO 00/62367 | 10-19-2000 | Carlsson, Erik, et al. | | |
| | 22 | JP 29-05-00 2001338839 | 07-12-2001 | Tsuneo, Mishima | | |
| | 23 | EP 0 637 131 A1 | 02-01-1995 | Fujita Masanori | | |
| | 24 | EP 0 843 374 A2 | 05-20-1998 | Muller, Frithjoj E., et al. | Abstract, Fig. 1 | |
| | 25 | EP 0 638 953 A1 | 02-15-1995 | Yasuoka, et al. | | |
| | 26 | WO 00/35042 | 06-15-2000 | Sengupta, Louise, et al | | |
| | 27 | EP 0 680 108 A1 | 11-02-1995 | Atokawa, Masayuki | | |
| | 28 | EP 0 881 700 A1 | 12-02-1998 | Atokawa, Masayuki | | |
| | 29 | WO 00/28613 | 05-18-2000 | Sengupta, Louise, et al | | |
| | 30 | DE 40 36 866 A1 | 07-25-1991 | Yamamoto, Masaki | | |

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| Examiner Signature | Date Considered |
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| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) | | | Application Number | 09/927,136 | |
| | | | Filing Date | August 10, 2001 | |
| | | | First Named Inventor | Stanley S. Toncich | |
| | | | Art Unit | 2821 | |
| | | | Examiner Name | Tho Gia Phan | |
| Sheet | 2 | of | 6 | Attorney Docket Number | UTL 00004 |

| U.S. PATENT DOCUMENTS | | | | | |
|-----------------------|---------------|---------------------------------|--------------------------------|--|---|
| Examiner Initials* | Cite No. 1 | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Number - Kind Code 2 (if known) | | | |
| | 31 | us- 6,097,263 | 08-01-2000 | Mueller, Carl H., et al. | |
| | 32 | us- 5,987,314 | 11-16-1999 | Salto, Atsushi | |
| | 33 | us- 5,472,935 | 12-5-1995 | Yandrofski, Robert, et al. | |
| | 34 | us- 4,799,066 | 01-17-1989 | Deacon, Malcolm J. | |
| | 35 | us- 5,166,857 | 11-24-1992 | Avanic, Branko, et al. | |
| | 36 | us- 5,880,921 | 03-09-1999 | Tham, J.L. Julian, et al. | |
| | 37 | us- 5,640,042 | 06-17-1997 | Koscica, Thomas E., et al. | |
| | 38 | us- 4,835,499 | 05-30-1989 | Pickett, Michael N. | Abstract, Fig. 3 |
| | 39 | us- 3,413,543 | 11-26-1968 | Schubring, et al. | Col. 4, lines 3- 31, Fig. 2 |
| | 40 | us- 5,945,887 | 08-31-1999 | Makino, Toshihiro, et al. | |
| | 41 | us- 5,973,568 | 10-26-1999 | Shapiro, Gary, et al. | |
| | 42 | us- 5,216,392 | 06-01-1993 | Fraser, Randall S. | |
| | 43 | us- 3,676,803 | 07-11-1972 | Simmons, William J. | |
| | 44 | us- 3,836,874 | 09-17-1974 | Maeda, Minoru, et al. | |
| | 45 | us- 5,778,308 | 07-07-1998 | Sroka, Peter, et al. | |
| | 46 | us- 5,777,524 | 07-07-1998 | Wojewoda, Carl E., et al. | |
| | 47 | us- 6,052,036 | 04-18-2000 | Enstrom, Hakan, et al. | |
| | 48 | us- 6,292,143 B1 | 09-18-2001 | Romanofsky, Robert R. | |
| | 49 | us- 5,617,104 | 04-01-1997 | Das, Satyendranath | |
| | 50 | us- 5,496,795 | 03-05-1996 | Das, Satyendranath | |

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| | | Country Code ³ - Number ⁴ - Kind Code ⁵ (if known) | | | | |
| | 51 | EP 1 043 741 A2 | 10-11-2000 | Klee, Mareike, et al. | | |
| | 52 | EP 0 795 922 A1 | 09-17-1997 | Tsuru, Teruhisa, et al. | | |
| | 53 | EP 0 909 024 A2 | 04-14-1999 | Nakamichi, et al. | | |
| | 54 | WO 00/79648 A1 | 12-28-2000 | Varadan, Vijay K., et al. | | |
| | 55 | WO 00/79645 A1 | 12-28-2000 | Falk, Kent, et al. | | |
| | 56 | WO 94/13028 | 06-09-1994 | Yandrofski, et al. | Col. 8, lines 9-26, | |
| | 57 | | | | Figs. 30-31; p. 14, | |
| | 58 | | | | par. 4, abst., | |
| | 59 | | | | nos. 2. 4. 11 | |
| | 60 | | | | | |

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| Substitute for form 1449B/PTO | | Complete if Known | |
| | | Application Number | 09/927,136 |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) | | Filing Date | August 10, 2001 |
| | | First Named Inventor | Stanley S. Toncich |
| | | Group Art Unit | 2821 |
| | | Examiner Name | Tho Gia Phan |
| | | Attorney Docket Number | UTL 00004 |
| Sheet | 3 | of | 6 |

| OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS | | | |
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| | 61 | A. Presser, "Varactor-Tunable, High-Q Microwave Filter," RCA Review, Vol. 42, Dec. 1981, pp. 691-705. | |
| | 62 | C. Chang and T. Itoh, "Microwave Active Filters Based on Coupled Negative Resistance Method," IEEE Trans. on Microwave Theory and Techniques, Vol. 38, No. 12, Dec. 1990, pp. 1879-1884. | |
| | 63 | P. Katzin, B. Bedard, and Y. Ayasli, "Narrow-Band MMIC Filters with Automatic Tuning and Q-Factor Control," 1993 IEEE MTT-S Int. Microwave Symp. Digest pp.403-406. | |
| | 64 | B. Hopf, I. Wolff, and M. Guglielmi, "Coplanar MMIC Active Bandpass Filters Using Negative Resistance Circuits," 1994 IEEE MTT-S Symposium Digest, pp. 1183-1185. | |
| | 65 | U. Karacaoglu and I.D. Robertson, "High Selectivity Varactor-Tuned MMIC Bandpass Filter Using Lossless Active Resonators," 1994 IEEE MTT-Symposium Digest, pp. 1191-1194. | |
| | 66 | B. Nauta, "A CMOS Transconductance-C Filter Technique for Very High Frequencies," IEEE Journal of Solid-State Circuits, Vol. 27, No. 2, February 1992, pp. 142-153. | |
| | 67 | K Fujita, H. Itoh, R. Yamamoto, "A 15.6 GHz Commercially Based 1/8 GaAs Dynamic Presealer," 1989 IEEE GaAs IC Symposium, pp. 113-116. | |
| | 66 | J. Smuk, P. Katzin, "MMIC Phase Locked L-S Band Oscillators," 1994 IEEE GaAs Symposium Digest, pp. 27-29. | |
| | 69 | S. R. Chandler, I. C. Hunter, and J.G. Gardiner, "Active Varactor Tunable Bandpass Filter," IEEE Microwave and Guided Wave Letters, Vol. 3, No. 3, March 1993, pp. 70-71. | |
| | 70 | I. C. Hunter and John D. Rhodes, "Electronically Tunable Microwave Bandpass Filters," IEEE Trans. on MTT, Vol. 30, No. 9, September 1982, pp. 1354-1367. | |
| | 71 | S. Toyoda, "Quarter-wavelength Coupled Variable Bandstop and Bandpass Filters Using Varactor Diodes," IEEE Trans. on Mtt, Vol. 30, No. 9, September 1982, pp. 1387-1389. | |

| | | | |
|-------------------------------|--|----------------------------|--|
| Examiner Signature | | Date Considered | |
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| | | Application Number | 09/927,136 |
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| | | First Named Inventor | Stanley S. Toncich |
| | | Group Art Unit | 2821 |
| | | Examiner Name | Tho Gia Phan |
| | | Attorney Docket Number | UTL 00004 |
| Sheet | 4 | of | 6 |

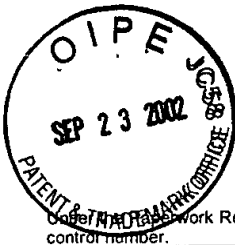
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| | 72 | B. Yu. Kapilevich, "Variety of Approaches to Designing Microwave Active Filters," Proc. 27th European Microwave Conf., Jerusalem, Vol. 1, 1997, pp. 397-408. | |
| | 73 | B. Yu. Kapilevich, "Understand the Operation of Channelized Active Filters," Microwaves & RF, January 1997, pp. 89-92. | |
| | 74 | M. Dishal, "Alignment and Adjustment of Synchronously Tuned Multiple Resonator-Circuit Filters" Proc. IRE 39, November 1951, pp. 1448-1455. | |
| | 75 | S. B. Cohn, "Dissipation Loss in Multiple-Coupled-Resonator Filters," Proc. IRE 47, August 1959, pp. 1342-1348. | |
| | 76 | G. L. Matthaei, "An Electronically Tunable Up-Converter," Proc. IRE 49, November 1961, pp. 1703-1704. | |
| | 77 | E. G. Fubini and E.A. Guillemin, "Minimum Insertion Loss Filters," Proc. IRE 47, January 1959, pp. 37-41. | |
| | 78 | W.J. Getsinger, "Prototypes for Use in Broadbanding Reflection Amplifiers," IEEE Trans. PTGMITT-11, November 1963, pp. 486-497. | |
| | 79 | E.S. Kuh and M. Fukada, "Optimum Synthesis of Wide-Band Parametric Amplifiers and Converters," IRE Trans. PCCT-8, December 1961, pp.410-415. | |
| | 80 | W. J. Getsinger and G.L. Matthaei, "Some Aspects of the Design of Wide-Band Up-Converters and Nondegenerate Parametric Amplifiers," IEEE Trans. PTGMITT-12, January 1964, pp. 77-87. | |
| | 81 | R. L. Slevin, "Design of a Tunable Multi-Cavity Waveguide Band-Pass Filter," 1959 IRE National Convention Record, Part 3, pp. 91-112. | |
| | 82 | J.J. Taub and B. F. Bogner, "Design of Three-Resonator Dissipative Band-Pass Filters Having Minimum Insertion Loss," Proc. IRE 45, pp. 681-687 (May 1957). | |

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| | | Application Number | 09/927,136 |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) | | Filing Date | August 10, 2001 |
| | | First Named Inventor | Stanley S. Toncich |
| | | Group Art Unit | 2821 |
| | | Examiner Name | Tho Gia Phan |
| | | Attorney Docket Number | UTL 00004 |
| Sheet | 5 | of | 6 |

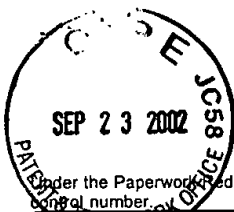
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| | 83 | K.L. Kotzebue, "Broadband Electronically-Tunable Microwave Filters," 1960 IRE Wescon Convention Record, Part 1, pp.21-27. | |
| | 84 | J.P. Louhos and I. Pankinaho, "Electrical Tuning of Integrated Mobile Phone Antennas," Nokia Mobile Phones, pp. 69- 97 (September 15, 1999). | |
| | 85 | P. K. Panayi, M. Al-Nuaimi, and L. P. Ivrrisimtzis, "Tuning Techniques for the Planar Inverted-F Antenna," National Conference on Antennas and Propagation Publication, No. 461, pp. 259-262 (April 1999). | |
| | 86 | Satoshi Makioka, et al., "A High Efficiency GaAs MCM Power Amplifier for 1.9 GHz Digital Cordless Telephones," IEEE 1994 Microwave and Millimeter-Wave Monolithic Circuits Symposium, pp. 51-54 (1994). | |
| | 87 | V. K. Varadan, K. A. Jose, V. V. Varadan, "Design and Development of Electronically Tunable Microstrip Antennas," IOP Publishing Ltd., pp.238-242 (1999). | |
| | 88 | Communication Relating to the Results of the Partial International Search: PCT/IB 02/01077 (2002). | |
| | 89 | International Search Report: PCT/IB 02/01086 (June 24, 2002). | |
| | 90 | International Search Report: PCT/IB 02/01078 (July 10, 2002). | |
| | 91 | International Search Report: PCT/IB 02/01087 (July 19, 2002). | |
| | 92 | International Search Report: PCT/IB 02/01107 (July 11, 2002). | |
| | 93 | International Search Report: PCT/IB 02/01120 (July 11, 2002). | |

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| | | Application Number | 09/927,136 |
| Sheet | 6 | Filing Date | August 10, 2001 |
| | of | First Named Inventor | Stanley S. Toncich |
| | 6 | Group Art Unit | 2821 |
| | | Examiner Name | Tho Gia Phan |
| | | Attorney Docket Number | UTL 00004 |

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| | 94 | International Search Report: PCT/IB 02/01098 (July 4, 2002). | |
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| | 97 | International Search Report: PCT/IB 02/01026 (June 28, 2002). | |
| | 98 | International Search Report: PCT/IB 02/01027 (June 25, 2002). | |
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